



120W Single Output Industrial DIN Rail Power Supply

NDR-120 series



Features:

- AC input range selectable by switch
- Protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- Isolation Class II
- LED indicator for power on
- 100% full load burn-in test
- 3 years warranty

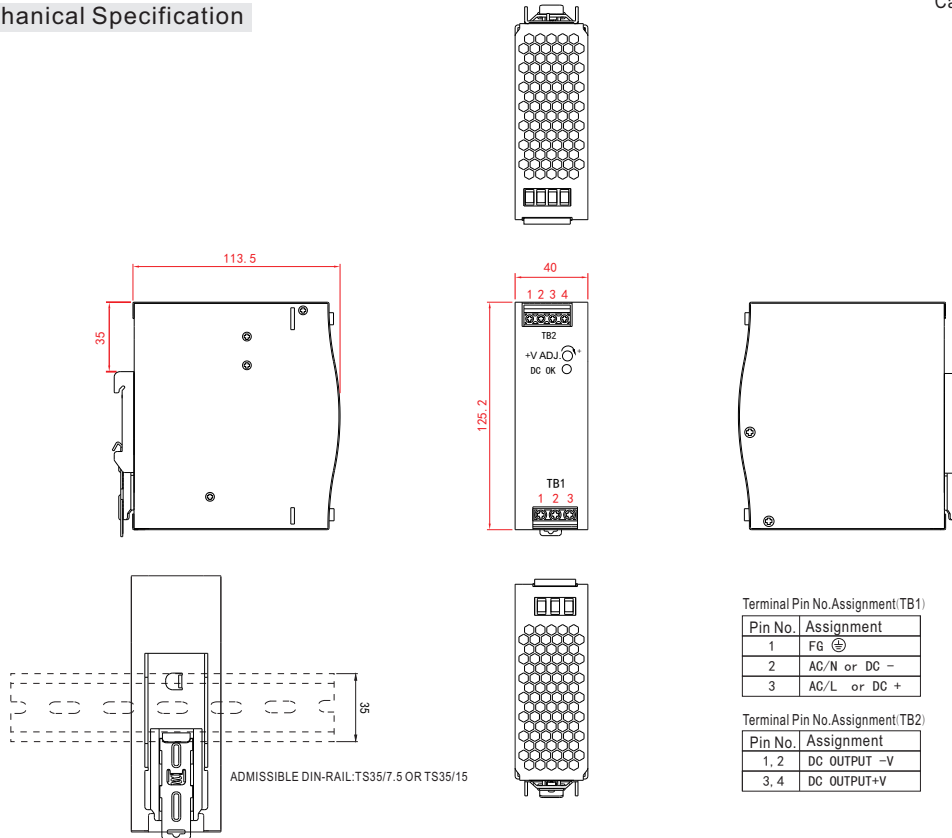


SPECIFICATION

MODEL		NDR-120-12	NDR-120-24	NDR-120-48
OUTPUT	DC VOLTAGE	12V	24V	48V
	RATED CURRENT	10A	5A	2.5A
	CURRENT RANGE	0~10A	0~5A	0~2.5A
	RATED POWER	120W	120W	120W
	RIPPLE & NOISE(max.) Note.2	100mVp-p	120mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	12~14V	24~28V	48~55V
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%
	SETUP,RISE TIME	1200ms, 60ms/220VAC 2500ms, 60ms/110VAC(at full load)		
HOLD UP TIME(Typ.)	16ms/220VAC 10ms/110VAC(at full load)			
INPUT	VOLTAGE RANGE	88~264V of 127~370VDC		
	FREQUENCY RANGE	47~63Hz		
	EFFICIENCY(Typ.)	85%	88%	89%
	AC CURRENT(Typ.)	2.3A/110VAC 1.3A/220VAC		
	INRUSH CURRENT(Typ.)	20A/110VAC 35A/220VAC		
LEAKAGE CURRENT	<1mA/220VAC			
PROTECTION	OVER LOAD	Above 105%~150% rated output power Protection type: Hiccup mode,recovers automatically after fault condition is removed		
	OVER VOLTAGE	14~17V	29~33V	56~65V
	OVER TEMPERATURE	Protection type: Hiccup mode,recovers automatically after fault condition is removed		
ENVIRONMENT	WORKING TEMP.	-20~+70°C (Refer to " Derating Curve")		
	WORKING HUMIDITY	20~90%RH, non-condensing		
	STORAGE TEMP.,HUMIDITY	-40~+85°C,10~95%RH		
	TEMP.COEFFICIENT	± 0. 03%/°C (0~50°C)		
VIBRATION	10~500Hz, 2G 10min/1 cycle, period for 60min.X、Y、Zaxes			
SAFETY & EMC	SAFETY STANDARDS	UL508,UL60950-1,TUV EN60950-1 Approved		
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC		
	ISOLATION RESISTANCE	I/P-O/P,I/P-FG,O/P-FG:100M Ohms / 500VDC/ 25°C/ 70% RH		
	EMC EMISSION	Compliance to EN55011, EN55022(CISPR22) Class B,EN61000-3-2,-3		
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11,EN55024,EN61000-6-2(EN50082-2),light industry level,criteria A			
OTHERS	MTBF	≥450K hrs. MIL-HDBK-217F(25)		
	DIMENSION	40*125.2*113.5mm(L*W*H)		
	PACKING	0.6Kg; 20pcs/13Kg/1. 16CUFT		
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance:includes set up tolerance,line regulation and load regulation.</p> <p>4. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets</p>			

Case No. WX992D AUnit:mm

Mechanical Specification



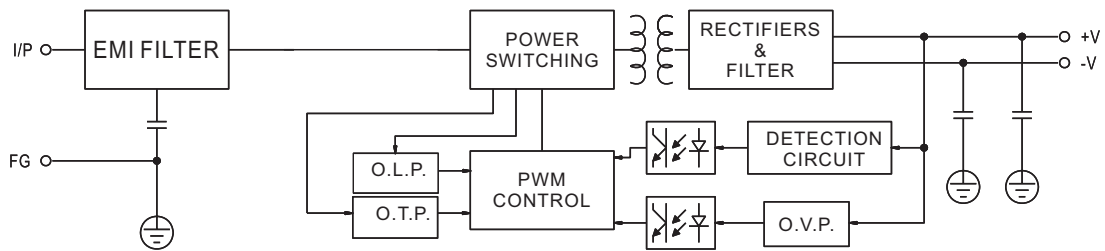
Terminal Pin No. Assignment (TB1)

Pin No.	Assignment
1	FG ⊕
2	AC/N or DC -
3	AC/L or DC +

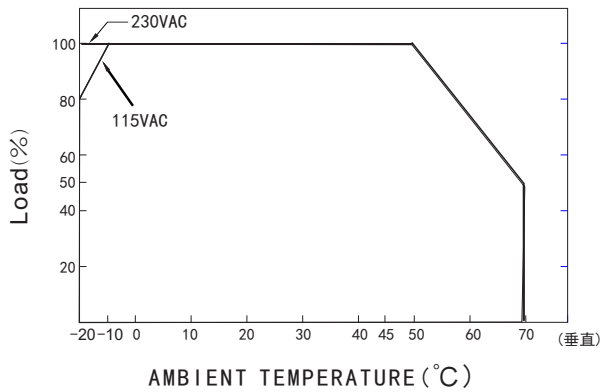
Terminal Pin No. Assignment (TB2)

Pin No.	Assignment
1, 2	DC OUTPUT -V
3, 4	DC OUTPUT +V

Block Diagram



Derating Curve



Static Characteristics

